

Alibaba Cloud Apsara File Storage NAS

User Guide

Issue: 20190524

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 Danger: Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK.
Courier font	It is used for commands.	Run the <code>cd / d C :/ windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[] or [a b]	It indicates that it is an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand slave}</code>

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1 Use CPFS

Cloud Paralleled File System (CPFS) is a parallel file storage service that is released by Alibaba Cloud. It is dedicated to providing high-performance and easy-to-access file storage.

Manage file systems

For more information about how to create a file system, see [Quick Start](#). CPFS only supports the subscription billing method. During a service period, you can upgrade the service to increase storage capacity, bandwidth, and IOPS performance. Before the service expires, you can renew the service to extend the service time.

Mount a file system

CPFS is compatible with POSIX-based APIs. You can use one or more of these APIs to mount a CPFS file system. We recommend that you use the custom CPFS client. For example, you can install the custom CPFS client on the CentOS operating system as follows.

1. Install dependency packages in the following order: make, gcc, libyaml-devel, libtool, zlib-devel, glibc-headers, and kernel-devel.

```
yum install -y make gcc libyaml-devel libtool zlib
- devel glibc-headers kernel-devel
```



Note:

Ensure that the version of the kernel-devel package is the same as that of the kernel.

2. Download the [Installation package of a CPFS client](#) and install the package on the server. Run the following command to install the package.

```
rpm -ivh cpfs-client-1.0.dev-rc2.x86_64.rpm
```

- a. Open the `/etc/cpfs/cpfs-client-autobuild.conf` configuration file, and modify the `rebuild` option as follows:

```
buildArgs =- j16
```

```
configArgs =-- with - o2ib = no
```

- b. Save the file and run the `service cpfs - client rebuild` command.

This process takes about 10 minutes to complete.

```
[root@bms-f222 ~]# service cpfs-client rebuild
- Building CPFS modules
>> Building with config_args: --with-o2ib=/usr/src/ofa_kernel/default, build_args: -j16
- Installing CPFS modules
```

3. Open the `/etc/cpfs/cpfs-mounts.conf` configuration file, and add a file system and mount drive.

```
192 . 168 . 5 . 179 @ tcp :/ hpctest / mnt / test
```

4. Run the `service cpfs - client start` command or the `service cpfs-client stop` command to start or stop the mount service.

```
[root@hpctest-ag-1 ~]# service cpfs-client start
Starting CPFS Client:
- Loading CPFS modules
- Mounting directories from /etc/cpfs/cpfs-mounts.conf
mount -t lustre 192.168.5.179@tcp:/hpctest /mnt/test
```




```
[root@hpctest-ag-1 mnt]# service cpfs-client stop
Shutting down CPFS Client:
- Unmounting directories from /etc/cpfs/cpfs-mounts.conf
umount /mnt/test
- Unloading modules
```

2 Manage LDAP users

Cloud Paralleled File System (CPFS) allows you to configure user-created Lightweight Directory Access Protocol (LDAP) services to control user access to CPFS file systems.

LDAP is used to provide directory services.

You can view the basic information of a file system on the File System Details page. Additionally, in the Access Control section of the page, you can click Add LDAP to configure the LDAP service.

File System Details	
Basic Information	
File system: <code>cpfs-01420969</code>	FileSystem Description:
Storage Capacity: 1.00 TB	Metered Size: 608.00 MB
Mount Point: <code>cpfs-01420969-nfs3.cn-shanghai.cps.aliyuncs.com@tcp:cpfs-01420969-nfs2.cn-shanghai.cps.aliyuncs.com@tcp:01420969</code>	Network type: vpc
VPC: <code>vpc-uf630prf8chd3sp1y588</code>	VSwitch: <code>vsw-uf630prf8chd3sp1y588</code>
Region: China East 2 (Shanghai)	Zone: China East 2 Zone F
Time Created: Mar 22, 2019, 9:04:17 PM	
Access Control	
<div>URI  Bind DN  Search Base </div>	
<div><div>Add LDAP</div><div>Activ</div></div>	